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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/848,032	05/03/2001	Thomas Scott Gee	200-0325	6472
32242	7590 01/16/2003			
DYKEMA GOSSETT PLLC 315 EAST EISENHOWER PARKWAY SUITE 100 ANN ARROR ML 48108 3206			EXAMINER	
			WAKS, JOSEPH	
ANN ARBOR, MI 48108-3306			ART UNIT	PAPER NUMBER
			2834 DATE MAILED: 01/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·	Application No.	Applicant(s)				
,	09/848,032	GEE, THOMAS SCOTT				
Office Action Summary	Examiner	Art Unit				
	Joseph Waks	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1)⊠ Responsive to communication(s) filed on <u>26 ∧</u>	lovember 2002					
<u> </u>	s action is non-final.					
•		reseasition as to the movite is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>15-18</u> is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>15-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accept	ted or b)☐ objected to by the Exa	miner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kitada et al. (JP 406048189 A) in view of Gropp et al. (5,555,871).

Kitada et al. disclose a hybrid vehicle comprising: an internal combustion engine 1, an electric traction motor 8, a storage battery 7, a battery charge state detector 6, an engine temperature sensor 5, a vehicle system controller 4, 9 receiving temperature and battery state of charge signal, an engine control unit 4 operating the engine in a fail-safe mode when the engine temperature exceeds a predetermined threshold and halting the engine and powering the vehicle solely with the traction motor if the battery state of charge is greater than a predetermined temperature threshold. However, Kitada et al. do not disclose the engine controller operating the engine on alternating cylinders when the engine temperature exceeds the predetermined temperature threshold and the battery state of charge is less than the predetermined charge threshold.

Gropp et al. disclose the engine controller operating the engine on alternating cylinders when the engine temperature exceeds the predetermined temperature threshold for the purpose of protecting the engine from overheating under low load condition or the cooling system failure.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the hybrid vehicle as taught by **Kitada et al.** and to provide the engine controller operating the engine on alternating cylinders when the engine temperature exceeds the predetermined temperature threshold as taught by **Gropp et al.** for the purpose of protecting the engine from overheating when the traction motor can not replace the engine because the battery state of charge is less than the predetermined charge threshold and is unable to feed the motor.

Re claims 16, and 17, the recited features requiring the engine control to operate the engine during the vehicle operation under speed exceeding a predetermined speed threshold or during the operation of the air conditioning system when the temperature of the engine exceeds the predetermined temperature threshold are inherent to the disclosed structure since it will direct the engine to alternate the cylinders at any operating condition when the engine temperature exceeds the predetermined temperature threshold and the battery has insufficient charge threshold for supporting the traction motor.

Re claim 18, the combined HEV discloses the system as claimed. Claims 18 that merely recites connecting and using the disclosed features together is inherent to the disclosed structure.

Response to Arguments

3. Applicant's arguments with respect to claims 15-18 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (703) 308-1676. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-1341 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

JOSEPH WAKS
PRIMARY PATENT EXAMINER
TC-2800

JW January 13, 2003